



## PATENT ABSTRACTS OF JAPAN

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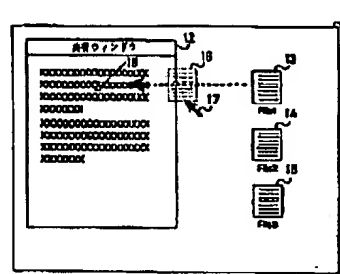
(21) Application number: **06125505**(71) Applicant: **CANON INC**(22) Date of filing: **07.06.94**(72) Inventor: **KADOWAKI SHUICHI**(54) **COMMUNICATION EQUIPMENT**

## (57) Abstract:

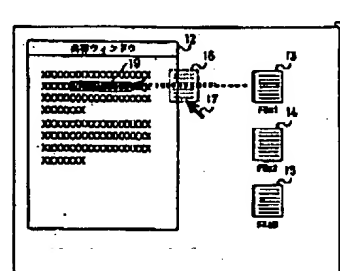
**PURPOSE:** To easily and quickly perform an operation for writing the information in a file in a shared window.

**CONSTITUTION:** By dragging the file icons 13 to 15 displayed correspondingly to various kinds of files and dropping these icons at a desired location within a shared window 12, the information within the files (texts and images, for instance) is developed within the shared window 12. By sharing the information within the files by transmitting the information in the files to the communication equipment on the opposite party connected via a line, the information corresponding to the icons can be fetched in the shared window 12 only by performing the drag operations and the drop operations for the icons without actuating an editor every time. As a result, an operation for fetching the information in the files in the shared window 12 can be easily and quickly performed.

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(a)



(b)

(57) Abstract:

[Purpose] To easily and quickly perform an operation for writing information of a file in a shared window.

[Constitution] By dragging file icons 13 to 15 displayed correspondingly to various kinds of files and dropping these at desired positions in a shared window 12, the information (for example, texts and images) in the files is developed in the shared window 12. By sharing the information in the files by transmitting the information in the files to a communication device at an opposite party connected via a line, the information corresponding to the icons can be fetched in the shared window 12 only by performing the drag operations and the drop operations for the icons without actuating an editor every time. As a result, an operation for fetching the information in the files in the shared window 12 can be easily and quickly performed.

[0015] FIG. 2 is a view showing a display example of a screen of the display portion 7 before a text file is developed. In FIG. 2, reference numeral 11 designates the whole screen of the display portion 7; and 12, a shared window (shared screen) in which a

displayed text is shared with a distant device.

[0016] Next, reference numerals 13 to 15 designate file icons, which correspond to various text files stored in the external storage device 4 of FIG. 1. Reference numeral 16 designates a drag icon, which is displayed in a period when a drag operation (a mouse is moved while a mouse button is pressed) is operated.

[0017] Next, reference numeral 17 designates a pointer, which arbitrarily moves on the display screen 11 in connection with the operation of the operation portion 5 such as a mouse or a keyboard. When various operations are performed using the operation portion 5, this pointer 17 indicates the operation position. Reference numeral 18 designates a cursor displayed by a click operation (to press a mouse button in a short time); and 19, hatching displayed in the shared window 12 by the drag operation.

[0018] As shown in FIG. 2(a), when a text in a file stored in the external storage device 4 is developed in the shared window 12, first, the pointer 17 is moved to a position where the text is developed in the shared window 12, and a click operation is performed there, so that the cursor 18 is displayed.

[0019] Next, for example, in the case where a file corresponding to the file icon 13 is developed in the shared window 12, the pointer 17 is moved onto the file icon 13 and a drag operation is started. In this drag operation, the drag icon 16 is displayed at a position where the moving pointer 17 exists.

[0020] Then, when the pointer 17 is moved to the position of the cursor 18 and a drop operation (a mouse button is released after a drag operation) is performed, the content of the file corresponding to the file icon 13 selected by the drag operation is inserted in front of the position of the cursor 18.

[0021] Besides, when the drop operation is performed, although the display of the file icon 13 as the drag origin and the content of the file corresponding to the file icon 13 remain, the display of the drag icon 16 on the shared window 12 disappears.

[0022] The development position of the text can also be specified by, as shown in FIG. 2(b), displaying the hatching 19. In this case, the pointer 17 is moved to a range where the text is developed in the shared window 12, and the drag operation is performed there, so that the hatching 19 is displayed.

[0023] Then, in the same manner as the above, when the file icon 13 is dragged and is dropped at the position of the hatching 19, the text in the range of the hatching 19 is replaced by the content of the file corresponding to the file icon 13 selected by the drag operation.

[0024] FIG. 3 is a view showing a display example of the screen of the display portion 7 after the file development as described above. As explained with reference to FIG. 2, when the file icon 13 is dropped on the cursor 18, the content of the file corresponding to the file icon 13 is inserted in front of the position of the

cursor 18. When the file icon 13 is dropped on the hatching 19, the text in the range of the hatching 19 is replaced by the content of the file corresponding to the file icon 13.

[0025] As a result, the text developed on the shared window 12 becomes as shown in FIG. 3. Incidentally, in FIG. 3, the original text before the development is expressed by "XXX...XXX", and the file inserted or replaced by the development is expressed by "AAA...AAA".

[0026] As described above, the information of the position or the range (the position of the cursor 18 or the range of the hatching 19) in which the text specified by the operation portion 5 is developed, and the text in the file corresponding to the specified file icon 13 are transmitted to the distant device by the line control portion 8 through the line 9.

[0027] On the other hand, also in a receiving side device connected to the transmission side device as described above through the line 9, the shared window 12 similar to the distant device is displayed on the display screen 11. However, the file icons 13 to 15 are not necessarily displayed.

[0028] By this, when the information of the development position or range of the text, and the text in the file are received by the line control portion 8 of the reception side device, the same text [AAA AAA ] is displayed at the same position as the position where development is made in the shared window 12 of the transmission

side device.